

Amendments to the Specification:

Please add the following new paragraph beginning at page 1, line 6:

Related Applications

This application claims the benefit of U.S. Provisional Application Serial Number 60/440,587, filed on January 16, 2003, the entire contents of which are incorporated herein by reference.

Please replace Table 18 with the following amended Table 18:

Table 18. Cytokine secretion induced by CpG DNAs containing an ethyleneglycol-linker in BALB/c mice spleen cell cultures.

[CpG DNA Number] SEQ ID NO	Cytokine, pg/mL		
	IL-12	IL-6	IL-10
4	1887±233	2130±221	86±14
137	2106±143	2362±166	78±21
138	1888±259	1082±25	47±14
139	2066±153	2507±66	73±17
140	1318±162	476±13	25±5
Medium	84±13	33±6	2 ±1

Please replace Table 19 with the following amended Table 19:

Table 19. Spleen cell proliferation induced by CpG DNA containing an aminobutyryl propanediol-linker in BALB/c mice spleen cell cultures and splenomegaly in BALB/c mice.

[CpG DNA Number ^a] SEQ ID NO.	Spleen cell proliferation (PI) ^b	Spleen weight (mg) ^c
4	3.7±0.8	121±16
150	2.5±0.6	107±11
151	9.2±0.7	169±16
152	8.8±0.4	220±8
153	7.6±0.7	127±24
154	7.8±0.04	177±12
M/V	1.2±0.3	102±8
LPS	2.8±0.5	ND

Please replace Table 16 with the following amended Table 16:

Table 16. Induction of IL-12 and IL-6 secretion by CpG DNA-conjugates in BALB/c mice spleen cell cultures

CpG DNA # ^a	IL-12 (pg/mL)±SD					IL-6 (pg/mL)±SD				
	0.1µg/mL	0.3µg/mL	1.0µg/mL	3.0µg/mL	10.0µg/mL	0.1µg/mL	0.3µg/mL	1.0µg/mL	3.0µg/mL	10.0µg/mL
89	991±121	1820±224	2391±175	3507±127	2615±279	652±48	2858±180	13320±960	18625±1504	17229±1750
90	526±32	2100±175	1499±191	3019±35	3489±162	1387±152	1426±124	5420±370	19096±484	19381±2313
91	1030±11	1348±102	2060±130	3330±130	3582±259	923±22	2542±81	9054±120	14114±179	13693±264
92	1119±159	1726±207	2434±100	2966±204	3215±464	870±146	1905±56	7841±350	17146±1246	15713±693
93	1175±68	2246±124	1812±75	2388±320	2545±202	1152±238	3499±116	7142±467	14064±167	13566±477
94	1087±121	1705±163	1797±141	2522±195	3054±103	1039±105	2043±157	4848±288	15527±224	21021±1427
95	1173±107	2170±155	2132±58	2812±203	3689±94	807±0.5	927±0.5	3344±0.5	10233±0.5	9213±0.5
96	866±51	1564±63	1525±63	2666±97	4030±165	750±63	1643±30	5559±415	11549±251	11060±651
97	227±3	495±96	1007±68	897±15	1355±97	302±18	374±22	1000±68	9106±271	13077±381
98	139±18	211±12	452±22	458±29	1178±237	220±23	235±18	383±35	1706±33	11530±254
99	181±85	282±105	846±165	2082±185	3185±63	467±122	437±85	1697±283	9781±13	11213±294
Medium	86±6					60±12				

^a: See Table 1 for sequences.

Please replace the paragraph beginning at page 57, line 9, with the following amended paragraph:

BALB/c mouse (4-8 weeks) spleen cells were cultured in RPMI complete medium. Murine macrophage-like cells, J774 (American Type Culture Collection, 10801 University Boulevard, Manassas, VA 20110-2209 ~~Rockville, MD~~) were cultured in Dulbecco's modified Eagle's medium supplemented with 10% (v/v) FCS and antibiotics (100 IU/mL of penicillin G/streptomycin). All other culture reagents were purchased from Mediatech (Gaithersburg, MD).